

**INCIDENT ACTION PLAN**

Be brief and concise with your entries

Location	Control Level	Operational Period
Bayou Corne Sink Hole	Company Supervisory	8/21/12 From 07:00 To 18:00

<b>1.0 SITUATION</b> Disease, community, environment  PROMPTS: Weather, disease trends, Resources, Hazards & safety  REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts	<b>CURRENT</b> <b>Cloudy @ 08:00</b>  <b>PREDICTED</b> <b>Isolated thunderstorms</b>
<b>2.0 OBJECTIVES (or MISSION)</b>  PROMPTS: Time & space  REFERENCE: Appreciation – control options, courses open to disease	<b>CURRENT</b> <b>Objective 1 - Gas Monitoring:</b>  <b>6 Gas Monitors have been set up in the field and are obtaining data on a continuous basis. (See Attached Map for Locations)</b>  <b>The monitors are running on batteries which must be changed out every morning. Three monitors are located in the swamp and are required to be reached via airboats launched from TBC facilities.</b>  <b>The continuous monitoring data is collected at an office trailer located at Texas Brine Grand Bayou Facility. Monitoring the information on a 24 hours basis. Monitoring is being recorded for LEL, VOC, H2S and O2.</b>  <b>Objective 2 – Surface Water Salinity Monitoring – See Attached IAP</b>  <b>Objective 3 – Shore Up Containment Boom (Completed)</b>  See Boom Deployment IAP (Attached)  Plan Modifications. Eastern Boom was not required because sunk boom had resurfaced. The sink hole currently has full containment.  <b>Sink hole observation map. See attached.</b>



	<div data-bbox="495 415 673 447" data-label="Text"> <p>ALTERNATE</p> </div>
<div data-bbox="175 615 792 653" data-label="Section-Header"> <p><b>3.0 EXECUTION</b> add safety information as appropriate</p> </div>	
<div data-bbox="175 703 459 735" data-label="Section-Header"> <p><b>GENERAL OUTLINE</b></p> </div> <div data-bbox="175 764 425 835" data-label="Text"> <p>PROMPTS: Strategies &amp; tactics (current/proposed/alternate)</p> </div> <div data-bbox="175 856 438 905" data-label="Text"> <p>REFERENCE: Appreciation, Control Options</p> </div>	<div data-bbox="495 714 1421 989" data-label="Text"> <p><b>Safety Information: See Attached Safe Work Rules</b>  <b>Reference IAP dated 8/9/12</b>  <b>Additional to our Safe Work Rules for this project we are adding</b>  <b>the awareness of insects, reptiles and animals.</b>  <b>Inspect location for flammability</b>  <b>Daily Safety Meetings</b>  <b>PPE Required on site: Respirator w/ VOC Cartridge, Gloves for</b>  <b>sampling, eye protection, life preservers, hearing protection.</b></p> </div>
<div data-bbox="175 1222 355 1253" data-label="Section-Header"> <p><b>GROUPINGS</b></p> </div>	<div data-bbox="495 1232 534 1264" data-label="Text"> <p><b>NA</b></p> </div>
<div data-bbox="175 1442 365 1501" data-label="Section-Header"> <p><b>TASKS</b> Including PR &amp; Media</p> </div>	<div data-bbox="495 1442 704 1474" data-label="Text"> <p><b>Same as above</b></p> </div>
<div data-bbox="175 1652 402 1719" data-label="Section-Header"> <p><b>COORDINATING INSTRUCTIONS</b></p> </div> <div data-bbox="175 1743 402 1814" data-label="Text"> <p>PROMPTS: Timings, routes, assembly areas, staging areas</p> </div>	<div data-bbox="495 1652 1377 1688" data-label="Text"> <p><b>Texas Brine Grand Bayou Facility will be used as staging area.</b></p> </div>
<div data-bbox="175 1898 784 1936" data-label="Section-Header"> <p><b>4.0 ADMINISTRATION</b> (Logistics support)</p> </div>	

PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)	
<b>SUPPLY</b> WHO, WHAT, WHERE, WHEN of resources not readily available	<b>NA</b>
<b>GROUND SUPPORT</b> Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance	<b>NA</b>
<b>COMMUNICATIONS</b> Installation, maintenance, technical advice	<b>Cell Phone &amp; Landline Communications:</b> <b>Kenneth Blanchard – Area Manager – 985-369-6657 (985-637-9774)</b> <b>kblanchard@texasbrine.com</b> <b>Scott Borne – Facility Manager – 985-369-6657 (985-637-9778)</b> <b>sborne@texasbrine.com</b> <b>Joel Miller, PE – Consultant – 337-828-1950 (337-578-3211) joel.miller@cox-internet.com</b> <b>Bruce Martin – Operations/PR – 713-877-2747 (281-808-5200)</b> <b>bmartin@texasbrine.com</b> <b>Mark Cartwright – Technical/Engineering – 713-877-2634 (281-744-4806)</b> <b>mcartwright@unitedbrine.com</b> <b>Scott Whitelaw – Environmental/Safety – 713-877-2729 (713-202-0452)</b> <b>swhitelaw@tum.com</b>
<b>STAGING AREA/ FCP</b> Setting up, communications, staffing	<b>Texas Brine Grand Bayou Facility</b> <b>1301 Hwy 70 South, Belle Rose, La 70341</b>
<b>5.0 ADMINISTRATION (Logistics services)</b>	
PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)	
<b>FACILITIES</b> Security, waste, cleaning	<b>NA</b>
<b>CATERING</b>	<b>NA</b>
<b>OH&amp;S/MEDICAL</b> Medical plan, first aid plan	<b>Call 911</b>
<b>FINANCE</b>	<b>NA</b>
<b>TRAVEL</b>	<b>NA</b>

INDUCTION/ TRAINING	NA
ACCOMMODATION	NA
<b>6.0 CONTROL, COORDINATION &amp; COMMUNICATION</b>	
CONTROL & COORDINATION STRUCTURE  REFERENCE Structural Chart	Plant Management Supervision / Contractor Work
COORDINATION & LIAISON  Local knowledge, police, agency reps, emergency mgt reps	NA
COMMUNICATIONS  PROMPTS Communications structure, operational comms plan, information mgt	Plant Management – Contractor Communication via Cell Phone

<b>EXTRAS</b>	
<b>Attachments</b> PROMPTS:: maps, weather, organisational charts, resources, comms diagram	<b>Site Map</b> <b>Current Weather</b> <b>Safe Work Rules</b> <b>Safety Training Log</b>
<b>Plan developers</b> PROMPTS PO, Logs Mgr, Controller	NA
<b>Approval</b> Controller, Ops Director	<b>TBC Company Rep:</b> <b>FOSC:</b> <b>SOSC:</b> <b>POSC:</b>

<b>INCIDENT BRIEFING</b>	1. Incident Name Grand Bayou Corne Sink Hole	2. Date 8/21/2012	3. Time 07:00-18:00
<b>4. Map Sketch</b>			
<b>5. Current Organization</b>			
<div style="border: 1px solid black; width: 250px; margin: 0 auto; padding: 5px; text-align: center;">           Command            Bruce Martin         </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="border: 1px solid black; width: 150px; height: 40px; display: flex; flex-direction: column; justify-content: space-between; padding: 2px;"> <div>Planning/Intelligence</div> <div>Mark Cartwright</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; display: flex; flex-direction: column; justify-content: space-between; padding: 2px;"> <div>Operations</div> <div>Ken Blanchard</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; display: flex; flex-direction: column; justify-content: space-between; padding: 2px;"> <div>Logistics</div> <div>Scott Borne</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; display: flex; flex-direction: column; justify-content: space-between; padding: 2px;"> <div>Finance/Aministration</div> <div>Becky Ladet</div> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="border: 1px solid black; width: 150px; height: 100px; display: flex; flex-direction: column; justify-content: space-between; padding: 2px;"> <div>Div.</div> <div style="flex-grow: 1;"></div> </div> <div style="border: 1px solid black; width: 150px; height: 100px; display: flex; flex-direction: column; justify-content: space-between; padding: 2px;"> <div>Div. Environmental</div> <div>Scott Whitelaw</div> </div> <div style="border: 1px solid black; width: 150px; height: 100px; display: flex; flex-direction: column; justify-content: space-between; padding: 2px;"> <div>Div. Safety</div> <div>Scott Whitelaw</div> </div> <div style="border: 1px solid black; width: 150px; height: 100px; display: flex; flex-direction: column; justify-content: space-between; padding: 2px;"> <div>Div. Security</div> <div>Mike Kleinpeter</div> </div> <div style="border: 1px solid black; width: 150px; height: 100px; display: flex; flex-direction: column; justify-content: space-between; padding: 2px;"> <div>Air</div> <div>Air Operations</div> <div>Air Support</div> <div>Air Attack</div> <div>Air Tanker Coord,</div> <div>Helicopter Coord.</div> </div> </div>			
Page 1 of	6. Prepared by (Name and Position) Scott Whitelaw - EHS Manager		

## 6. Resources Summary

[illegible]

## 7. Summary of Current Actions

Continous air monitoring around the sink hole.

Installing extra boom around sink hole to shore up lost boom due to hole expansion.

<b>INCIDENT OBJECTIVES</b>	1. Incident Name Bayou Corne Sink Hole	2. Date 8/21/12	3. Time 07:00
4. Operational Period 07:00 - 17:00 Every Day			
5. General Control Objectives for the Incident (include alternatives) Management Objectives Monitor air around sink hole for LEL, VOC, Oxygen, CO, and H2S Adding more boom around the sink hole to shore up lost boom due to hole expansion.  Operational Objectives : Same as above			
6. Weather Forecast for Period			
7. General Safety Message			
8. Attachments (mark if attached)			
<input type="checkbox"/> Organization List - ICS 203 <input type="checkbox"/> Medical Plan - ICS 206 <input type="checkbox"/> (Other) <input type="checkbox"/> Div. Assignment Lists - ICS 204 <input type="checkbox"/> Incident Map <input type="checkbox"/> <input type="checkbox"/> Communications Plan - ICS 205 <input type="checkbox"/> Traffic Plan <input type="checkbox"/>			
9. Prepared by (Planning Section Chief)		10. Approved by (Incident Commander)	
<b>INCIDENT OBJECTIVES</b>	1. Incident Name Bayou Corne Sink Hole	2. Date 8/21/12	3. Time 07:00

4. Operational Period

07:00 - 17:00 Every Day

5. General Control Objectives for the Incident (include alternatives)

Management Objectives

Monitor air around sink hole for LEL, VOC, Oxygen, CO, and H2S

Adding more boom around the sink hole to shore up lost boom due to hole expansion.

Operational Objectives :

Same as above

6. Weather Forecast for Period

7. General Safety Message

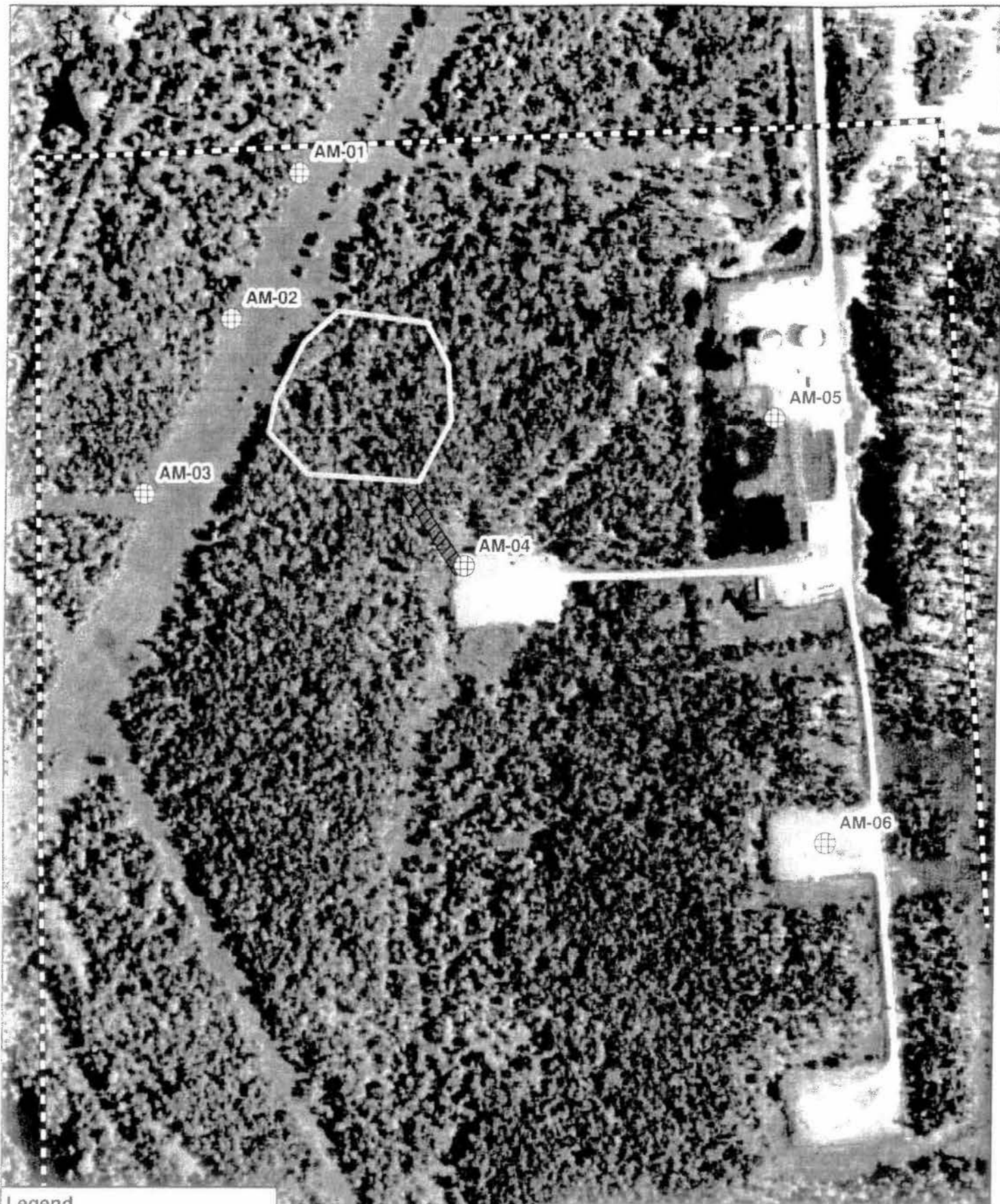
8. Attachments (mark if attached)

- |  |   |                                  |
|--|---|----------------------------------|
| <input type="checkbox"/> Organization List - ICS 203     | <input type="checkbox"/> Medical Plan - ICS 206 | <input type="checkbox"/> (Other) |
| <input type="checkbox"/> Div. Assignment Lists - ICS 204 | <input type="checkbox"/> Incident Map           | <input type="checkbox"/>         |
| <input type="checkbox"/> Communications Plan - ICS 205   | <input type="checkbox"/> Traffic Plan           | <input type="checkbox"/>         |

9. Prepared by (Planning Section Chief)

10. Approved by (Incident Commander)

ORGANIZATION ASSIGNMENT LIST				
1. Incident Name		ICS 203 Operations Section		
Bayou Corne Sink Hole		Op's Chief		
2. Date	3. Time	Deputy		
8/21/12	06:00 - 18:00	a. Branch I		
4. Operational Period		Branch Director		
Everyday		Deputy		
Position	Name		Division/Group	
5. Incident Commander and Command Staff		Division/Group		
Incident Commander	Mark Cartwright		Division/Group	
Deputy	Kenneth Blanchard		Division/Group	
Safety Officer	Scott Whitelaw		Division/Group	
Information Officer	Bruce Martin		Division/Group	
Liaison Officer	Scott Borne		Staging Area	
6. Agency Representative		b. Branch II		
Agency	Name		Branch Director	
			Deputy	
			Division/Group	
			Division/Group	
			Division/Group	
			Division/Group	
			Division/Group	
			Staging Area	
7. Planning/Intelligence Section		c. Branch III		
Plans/Intel Chief			Branch Director	
Deputy			Deputy	
Resources Unit			Division/Group	
Situation Unit			Division/Group	
Documentation Unit			Division/Group	
Demobilization Unit			Division/Group	
Technical Specialists			Division/Group	
Human Resources			Division/Group	
Training			d. Air Operations Branch	
GIS			Air Operations Branch Director	
			Air Tactical Supervisor	
			Air Support Supervisor	
			Helicopter Coordinator	
			Air Tanker Coordinator	
8. Logistics Section		10. Finance/Administration Section		
Logistics Chief			Finance/Admin. Chief	
Deputy			Deputy	
Supply Unit			Time Unit	
Facilities Unit			Procurement Unit	
Ground Support Unit			Compensation/Claims Unit	
Communications Unit			Cost Unit	
Medical Unit				
Food Unit				



**Legend**

-  Air Monitoring Stations (2012.08.17)
-  Board Road
-  Approximate Property Line
-  Sinkhole Extents (2012.08.14)

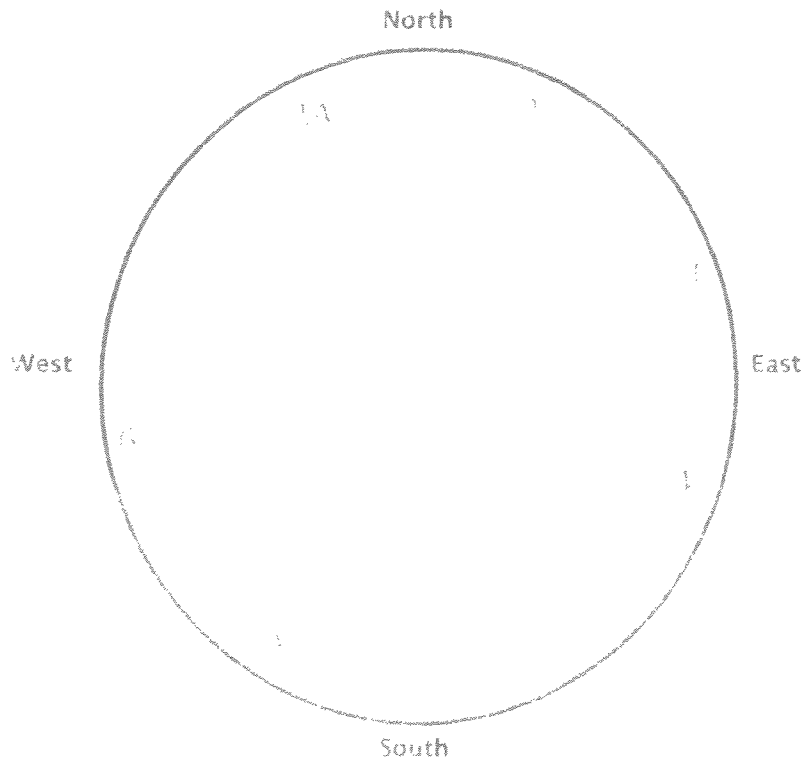
0 125 250 500 Feet

**Texas Brine Air Monitoring Locations**  
8/17/2012 - current

# Bayou Corne Sinkhole

Date and Time: 8/10/19 - 8/11/19

	Time 7:00 p.m.	Time 10:00 p.m.	Time 1:00 a.m.	Time 4:00 a.m.
Tree 1	OK	OK	OK	OK
Tree 2	OK	OK	OK	OK
Tree 3	OK	OK	OK	OK
Tree 4	OK	OK	OK	OK
Tree 5	OK	OK	OK	OK
Tree 6	OK	OK	OK	OK



Checked by: [Signature]

By: [Signature]  
[Signature]

MILLER ENGINEERS & ASSOCIATES, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
FRANKLIN, LA.

OXY #5 MONUMENT

1" = 400'

NOTE:

PROPERTY & LEASE LINES ARE APPROXIMATE ONLY.  
THIS SKETCH DOES NOT REPRESENT A PROPERTY  
BOUNDARY SURVEY.

OXY #4 MONUMENT

APPROX. EDGE  
OF SLURRY PIT  
8/4/12

TB  
WATER SAMPLES

WELL 1

TANK "W"

TANK "E"

WATER WELL

T.B.M. 1

T.B.M. 3A

WATER WELL 5

WATER WELL 2

T.B.M. 3C

T.B.M. 2

WELL 3

T.B.M. 3

WELL 2

T.B.M. 5

T.B.M. 3B

TBC LEASE LINE

WELL 9

GPS BASE

WELL 10

REFERENCE PT.

OXY GPS #4

T.B.M. 4

# TEXAS BRINE COMPANY, LLC AND AFFILIATED COMPANIES

Safe Work Practices

UNDERGROUND  
STORAGE, LLC



**UNITEDBRINE**

WATER TREATMENT SERVICES

**UNITEDBRINE**

WATER TREATMENT SERVICES

TEXAS BRINE COMPANY, LLC

17700 W. PARKWAY, SUITE 100

SERVICES MARKHAM, LP



RESPONSIBLE CARE

American  
Chemistry  
Council



72°F Belle Rose, Louisiana

Enter City, State, Country or U.S. Zip code or Airport Id

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## Weather Report

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## Belle Rose, Louisiana

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Current Conditions - °F | °C

As of 2:53 AM on Tuesday 21 Aug 2012 (Local Time) from KBTR Reporting Station

Clear

**72°F**  
Feels Like: 72°

Wind Chill: 72°    Ceiling: Unl  
Heat Index: 72°    Visibility: 10mi  
Dew Point: 70°    Wind: 6mph  
Humidity: 93%    Direction: 40° (NE)  
Pressure: 29.97"    Gusts: NA

**Report Text:** KBTR 211253Z 04005KT 10SM CLR 22/21 A2997  
RMK AO2 SLP147 T02220211

[View Detailed Observations for the last  
48 Hours + 14 Days](#)

## Today's Forecast

**9 AM**    **78°**  
M Sunny

**10 AM**    **81°**  
M Sunny

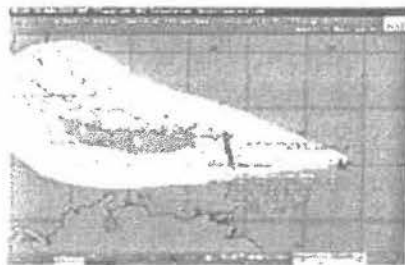
**11 AM**    **84°**  
M Sunny

[View Complete Hourly Forecast](#)

## Local Information

**No Weather Alerts  
for this location**[Radar](#) • [Satellite](#) • [Surface Analysis](#)

## Tropical Storm Tracking

Tropical Depression 9  
ATLANTIC TRACK

## Maps:

- [Current Track](#)
- [Visible Satellite](#)
- [Infrared Satellite](#)

## Bulletins:

- [Advisory](#)
- [Storm Log](#)

## Additional Resources:

- [Watches & Warnings](#)
- [Severe Outlook Today](#)
- [Severe Outlook Tomorrow](#)
- [Lightning Strikes](#)
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Plan your seasonal activities better

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10 Day Forecast - °F | °C

[View the Detailed Extended Forecast](#)

tue	wed	thu	fri	sat	sun	mon	tue	wed	thu
aug 21	aug 22	aug 23	aug 24	aug 25	aug 26	aug 27	aug 28	aug 29	aug 30
89° 71° 88°	71° 88°	73° 84°	74° 85°	74° 87°	74° 87°	74° 90°	74° 91°	74° 91°	74°

**Details for Tuesday, August 21**

Sunshine and clouds mixed. A stray afternoon thunderstorm is possible. High 89F. Winds ENE at 5 to 10 mph.

**Evening:** A few clouds. A stray shower or thunderstorm is possible. Low 71F. Winds light and variable.

UV Index: 11 (Extreme)

Relative Humidity: 63%

Precipitation: 20%

Snow: 0%

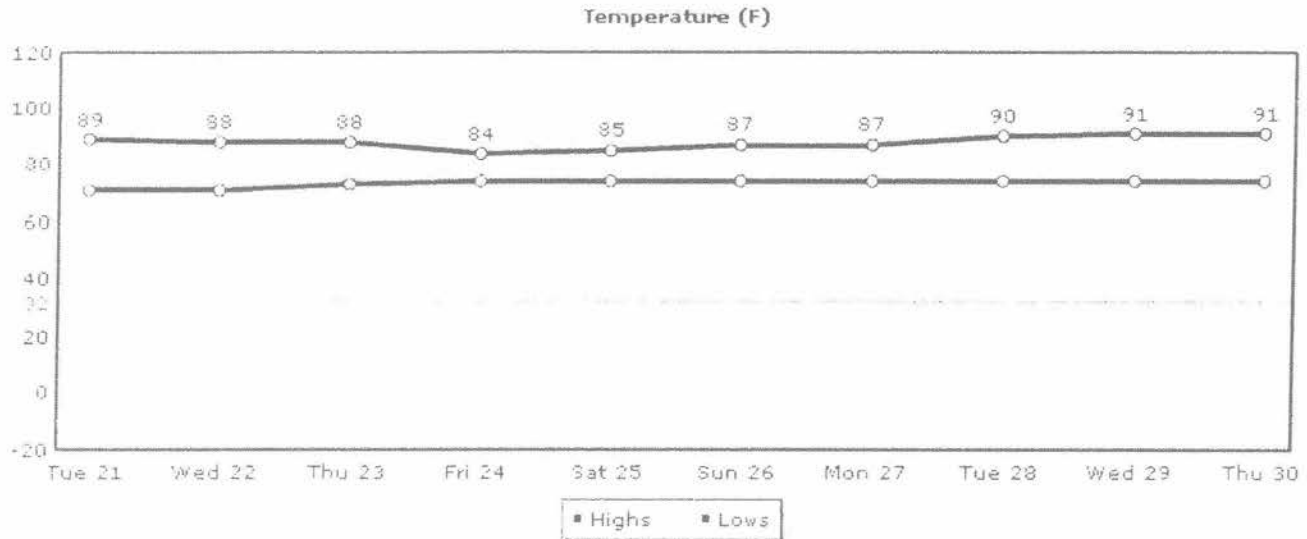
Cloud Coverage: 39%

**Sunrise:** 6:35 AM**Sunset:** 7:38 PM**Moonrise:** 10:40 AM**Moonset:** 10:06 PM**Moonphase:**

Waxing Crescent

**Direction:** ENE (60°)**Speed:** 6Mph(9Km, 5kts)**Daily Forecast Chart**

Chart Options: Temperature ▾


[Temperature](#)
[UV Index](#)
[Relative Humidity](#)
[Precipitation](#)
[Snow](#)
[Clouds](#)
[Wind](#)
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